

Claims

sub 1. An inflatable airbag cushion comprising: a bag of non-jacquard
B3 construction, wherein said bag comprises a face portion and a rear portion formed
5 from a first fabric layer and a second fabric layer, each of said first and second
fabric layers being defined by a plurality of polymeric warp yarns running in a warp
direction interposed by a plurality of polymeric weft yarns running in a weft
direction substantially transverse to said warp direction; said bag further
10 comprising a plurality of woven in joints, said woven in joints being arranged so as
to define flow barriers between said face portion and said rear portion such that
upon introduction of a gas into said bag, the flow of the gas within the bag is
limited by said woven in joints thereby containing the gas in locations where
inflation is desired and restricting inflation of said bag at locations where said
15 woven in joints are present; at least a portion of said woven in joints extending in
both the warp direction and the weft direction between said face portion and said
rear portion, and all of said woven in joints consisting essentially of one or more
straight line segments, at least one of said woven-in joints being longer than the
other woven-in joints and forming a closed end between said face portion and
20 said rear portion to prevent gas from escaping from said airbag cushion upon the
introduction of gas into said cushion, wherein at least a portion of said flow
barriers comprise substantially parallel woven in joints separated from one
another by at least two yarns and no more than twelve yarns in each layer of
fabric.

2. The invention according to Claim 1, wherein said flow barriers comprise box structures disposed across the interior of said bag.

5 3. The invention according to Claim 1, wherein said box structures are of multiple cornered construction.

Sub B37
4. The invention according to Claim 1, wherein said warp yarns and said weft yarns are formed from a polymer selected from the group consisting of polyester,
10 Nylon 6 and Nylon 6.6.

5. The invention according to Claim 1, wherein said bag further comprises a porosity blocking coating.

15 6. An invention according to Claim 1, wherein said parallel woven in joints are separated from one another by no more than eight yarns in each layer of fabric.

7. The invention according to Claim 1, wherein said parallel woven in joints
20 are separated from one another by no more than four yarns in each layer of fabric.

Sub A1
8. The invention according to Claim 1, wherein the woven-in joints are separated by an area of two layers of fabric.

9. The invention according to Claim 1, wherein the airbag is in the shape of a rectangle.

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206T30-TH2660